

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~A~~The method for reservation-recording a broadcasting program of claim 34, comprising the steps of:

downloading broadcasting program information ~~and before~~ storing the broadcasting program information in a ~~PDA~~ the mobile terminal;

converting the stored broadcasting program information into data information to be displayed on a screen of the ~~PDA~~ mobile terminal and then outputting the data information to the screen;

providing for searching of the broadcasting program information displayed on the screen; and

performing a ~~the~~ reservation-recording by ~~selecting a~~ receiving a user's input via the reservation-recording key of the ~~PDA~~ mobile terminal based on the searched broadcasting program information.

2. (Currently Amended) The method of claim 1, wherein ~~the step for performing a~~ the reservation-recording includes ~~the steps of:~~

transmitting the reservation-recording information to an event timer of ~~a~~the recording apparatus in response to the input of the reservation-recording key; and

storing the transmitted reservation-recording information ~~to~~in the event timer of the recording apparatus, operating the event timer ~~on~~at a preset reservation time based on the reservation-recording information, thereby turning on ~~a~~ power of the recording apparatus, and performing ~~a~~ the reservation-recording.

3. (Currently Amended) The method of claim 1, wherein in ~~the step for performing~~ ~~a~~the reservation-recording, the broadcasting program information selected by a user among the displayed broadcasting program information is wirelessly transmitted to the recording apparatus.

4. (Currently Amended) The method of claim 1, wherein in ~~the step for~~ downloading the broadcasting program information and storing, the broadcasting program information is downloaded through a broadcasting program data service provider's ~~internet~~ Internet homepage.

5. (Currently Amended) The method of claim 1, wherein in ~~the step for~~ downloading the broadcasting program information and storing, the broadcasting program information is directly downloaded from a broadcasting receiver where broadcasting program information is stored.

6. (Currently Amended) The method of claim 1, wherein in ~~the step for outputting~~ the ~~broadcasting program data~~ information ~~on to~~ the screen, icons are generated on the basis of the stored broadcasting program information ~~thus to be~~ and displayed on the screen.

7. (Currently Amended) The method of claim 6, wherein if one of the displayed ~~icon icons~~ is selected, broadcasting channel information, broadcasting time information, and broadcasting program information according to each channel and time are displayed as in a list form.

8. (Currently Amended) The method of claim 7, wherein in ~~the step for performing~~ a ~~the~~ reservation-recording, when ~~the~~ a user selects an arbitrary broadcasting program, broadcasting channel information and broadcasting time information corresponding to a title of the selected broadcasting program ~~title~~ are displayed ~~with an enlargement~~ enlarged, and a guide message inquiring whether the information is to be set as the reservation-recording information is displayed.

9. (Currently Amended) The method of claim 1, wherein in ~~the step for providing~~ for searching of the broadcasting program information, if an electric program guide (EPG) is provided as the broadcasting program information, a channel is set by inputting an up/down key of the PDA-mobile terminal when the channel inside the EPG is highlighted.

10. (Currently Amended) The method of claim 9, wherein in ~~the step for providing~~ for searching of the broadcasting program information, a software channel management for the broadcasting program information is provided ~~at to the PDA thus mobile terminal~~ to compare a channel set by a user with channel information of the program guide and to perform a channel search among substantial active channels.

11. (Currently Amended) The method of claim 1, wherein the ~~PDA mobile terminal~~ downloads broadcasting program information through a broadcasting receiver ~~for receiving that~~ receives broadcasting program information ~~thus to store, stores the broadcast program~~ information in a memory, and ~~perform~~ performs a search and ~~a the~~ reservation-recording of the broadcasting program information.

12. (Currently Amended) The method of claim 1, wherein the ~~PDA mobile terminal~~ accesses to a wireless ~~internet~~ Internet network through a mobile communication module, ~~thus~~ to download a broadcasting program from a broadcasting program service provider's ~~internet~~ Internet homepage and store the program in a memory, and then performs a search and ~~a the~~ reservation-recording of the program.

13. (Currently Amended) ~~A broadcasting program reservation-recording~~ The method ~~using a PDA of claim 35, further comprising the steps of:~~

~~searching broadcasting program information using a PDA;~~
~~a user's selecting his desired broadcasting program among the searched~~
~~broadcasting programs, and transmitting reservation-recording information corresponding to the~~
~~broadcasting program as a transmission packet (ex, CDMA packet) form;~~
~~transmitting the packetted reservation-recording information to a subscriber's~~
~~server through a wireless internet-Internet network;~~
~~transmitting the reservation-recording information to the subscriber's IP address~~
~~based on the transmission packet of the reservation-recording information which has been~~
~~transmitted to the subscriber's server; and~~
~~performing a reservation-recording in a recording apparatus by receiving the~~
~~reservation-recording information.~~

14. (Currently Amended) The method of claim 13, wherein ~~the step for performing a~~
~~the reservation-recording includes a step for turning on a power of the recording apparatus~~
~~through a wakeup LAN.~~

15. (Currently Amended) The method of claim 13, wherein ~~in the step for~~
~~performing a the reservation-recording, the reservation-recording information is stored by an~~
~~event timer including a non-volatile memory, a power of the recording apparatus is turned on at~~

a preset reservation time of the broadcasting program on the basis of the reservation-recording information, and a reservation-record is performed.

16. (Currently Amended) The method of claim 13, wherein the transmission packet includes a packet header ~~for informing~~ that informs of a data content, a subscriber's code ~~for informing that informs of~~ subscriber's information, the reservation-recording information, and the subscriber's IP information.

17. (Currently Amended) The method of claim 16, wherein the reservation-recording information includes channel information ~~for performing a~~ that performs the reservation-recording, time information regarding reservation start time and reservation finish time, and category information including a program list.

18. (Currently Amended) The method of claim 13, wherein the transmission packet includes a packet header ~~for informing~~ that informs of a data content, ~~a~~ the subscriber's mobile terminal ~~PDA~~ information, the reservation-recording information, and modem information when the recording apparatus is connected to the ~~internet~~ Internet by a telephone wire.

19. (Currently Amended) A broadcasting program reservation-recording system using a PDA-mobile terminal, the system comprising:

a CDMA module provided with a mobile communication module ~~for receiving~~
that receives broadcasting program information;

a remote communication controller ~~for exchanging that exchanges~~ data with an
~~external device~~ a recording apparatus or ~~performing~~ performs a wireless communication in order
to control the ~~external device~~ recording apparatus;

a storage ~~unit for storing device that stores~~ broadcasting program information
received through the CDMA module and control data for ~~each kind of external device~~ the
recording apparatus received by the remote communication controller;

a controller ~~for converting that converts~~ the broadcasting program information
stored in the storage ~~unit device~~ into data information of a suitable form to be displayed and
~~thereby outputting output~~; and

a display ~~unit for displaying device that displays~~ data information regarding the
broadcasting program information ~~outputted output~~ from the controller on a screen, wherein the
system is configured to transmit a reservation-recording information from the mobile terminal to
the recording apparatus based on a reservation-recording key of the mobile terminal to perform
power management of the recording apparatus and a reservation-recording in the recording
apparatus based on the reservation-recording information.

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20. (Currently Amended) The system of claim 19, further comprising a key input ~~unit~~
~~for selecting~~ device that receives a user's selection of the data information displayed on the
screen.

21. (Currently Amended) The system of claim 19, wherein the controller ~~includes~~
comprises:

a CPU ~~for generating that generates~~ icons for searching or controlling the
broadcasting program information based on the data stored in the storage ~~unit-device~~ and
~~thereby outputting~~ outputs the generated icons on the screen of the ~~PDA~~ mobile terminal; and

a companion chip ~~for controlling that controls~~ an operation of the remote
communication controller through an interface with the CPU.

22. (Currently Amended) The system of claim 19, wherein the controller sets an
arbitrary broadcasting program selected by a user among the broadcasting program information
displayed on the display ~~unit-device~~ in a the recording apparatus as the reservation-recording
information.

23. (Currently Amended) The system of claim 21, wherein the remote
communication controller ~~includes~~ comprises:

a remote control module ~~for outputting that outputs~~ a remote control signal in response to a remote control command for the ~~external device~~ recording apparatus provided from the companion chip connected to the CPU; and

a transmitter/receiver ~~for performing that performs~~ a wireless data communication link with the ~~external devices~~ recording apparatus by receiving the remote control signal from the remote control module.

24. (Currently Amended) The system of claim 23, wherein the transmitter/receiver ~~includes~~ comprises:

an infrared transmitter and an infrared receiver (IR transmitter/receiver) for ~~providing that provides~~ an infrared wireless data communication link; and

a radio frequency data communication link (RF transmitter/receiver) ~~for providing that provides~~ a high frequency wireless data communication link.

25. (Currently Amended) The system of claim 19, wherein the ~~display unit for controlling video/audio data regarding the broadcasting program information and thereby outputting as screen information and audio information on the screen~~ includes: device comprises:

a video controller;

an audio codec;

a liquid crystal display (LCD) screen;
a speaker; and
a microphone.

26. (Currently Amended) A broadcasting program reservation-recording system using a PDA mobile terminal, the system comprising:

a service center ~~for providing that provides~~ broadcasting program information;

a PDA mobile terminal for that allows for searching of a broadcasting program by downloading broadcasting program information from the service center and ~~thereby outputting that transmits a~~ reservation-recording information ~~of the broadcasting program from the mobile terminal to a recording apparatus based on a reservation-recording key of the mobile terminal to perform power management of the recording apparatus and a reservation-recording in the recording apparatus based on the reservation-recording information; and~~

a the recording apparatus for reservation-recording that reservation-records the broadcasting program provided from the service center based on the ~~outputted-output~~ reservation-recording information ~~of received from the PDA mobile terminal.~~

27. (Currently Amended) The system of claim 26, further comprising a mobile communication station ~~for providing that provides~~ a wireless communication ~~means device~~ between the service center and the PDA mobile terminal.

28. (Currently Amended) The system of claim 26, wherein the service center includes information of the ~~PDA~~mobile terminal and ~~internet~~Internet access information of the recording apparatus.

29. (Currently Amended) The system of claim 28, wherein the ~~internet~~Internet access information includes IP address information of the recording apparatus when the recording apparatus is connected to the ~~internet~~Internet by an Ethernet, and includes telephone number information when the recording apparatus is connected to the internet by a telephone wire.

30. (Currently Amended) The system of claim 29, wherein the recording apparatus is provided with a wakeup LAN module ~~thus to turn on the recording apparatus at the a time of a~~
an external data communication request ~~from outside~~.

31. (Currently Amended) The system of claim 30, wherein the wakeup LAN module ~~includes~~comprises:

a system bios ~~unit~~device including control information ~~for controlling that~~
controls a power of the recording apparatus;

a physical layer ~~unit for performing device that performs~~ an interface with the system bios ~~unit device~~ in response to the external data communication request ~~from outside~~; and

a backup battery ~~for providing that provides~~ a power to the physical layer ~~unit device~~ and the system bios ~~unit device~~.

32. (Currently Amended) The system of claim 31, further comprising a power ~~control unit for turning controller that turns~~ on/off a power of the recording apparatus based on the power control information of the system bios ~~unit device~~.

33. (Currently Amended) The system of claim 31, wherein the system bios ~~unit device~~ includes a power management logic ~~unit device~~ that stands by with an operation-enable state by receiving a minimum power from the backup battery.

34. (New) A method for reservation-recording a broadcasting program, the method comprising:

storing broadcasting program information in a mobile terminal; and

transmitting a reservation-recording information from the mobile terminal to a recording apparatus based on a reservation-recording key of the mobile terminal to perform power management of the recording apparatus and a reservation-recording in the recording

apparatus based on the reservation-recording information.

35. (New) A method for reservation-recording a broadcast program using a mobile terminal, the method comprising:

searching broadcasting program information in a mobile terminal; and

transmitting a reservation-recording information with a subscriber's IP address in a transmission packet form to perform power management of the recording apparatus and a reservation-recording in the recording apparatus based on the reservation-recording information.

36. (New) A recording apparatus, comprising:

a receiver configured to receive a reservation-recording information input via a reservation-recording key of a mobile terminal; and

an event timer configured to store the reservation-recording information and perform reservation-recording at a preset reservation time based on the reservation-recording information.

37. (New) The recording apparatus of claim 36, wherein the event timer turns on power of the recording apparatus at the preset reservation time based on the reservation-recording information.

38. (New) The recording apparatus of claim 36, wherein the event timer comprises a non-volatile memory.

39. (New) The recording apparatus of claim 36, wherein the event timer receives power via a back-up battery.

40. (New) A recording apparatus, comprising:
a receiver configured to receive reservation-recording information input via a reservation-recording key of a mobile terminal; and
a LAN wakeup module configured to turn on the recording apparatus upon receipt of the reservation-recording information.

41. (New) The recording apparatus of claim 40, wherein the wakeup LAN module comprises:
a system bios device including control information that controls a power of the recording apparatus;
a physical layer device that performs an interface with the system bios device in response to the receipt of the reservation-recording information; and
a backup battery that provides a power to the physical layer device and the system bios device.

42. (New) The recording apparatus of claim 41, further comprising a power controller that turns on/off a power of the recording apparatus based on the power control information of the system bios device.

43. (New) The recording apparatus of claim 41, wherein the system bios device includes a power management logic device that stands by with an operation-enable state by receiving a minimum power from the backup battery.